



PATENT  
Attorney Docket No. PXE-001C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Boyd *et al.* CONF. NO.: 6535  
SERIAL NO.: 10/764,328 GROUP NO.: 1614  
FILING DATE: January 23, 2004 EXAMINER: Not yet assigned  
TITLE: Methods and Composition for Diagnosing and Treating  
Pseudoxanthoma Elasticum and Related Conditions

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the publications are enclosed.

REMARKS

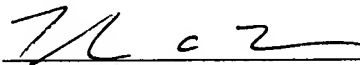
In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Respectfully submitted,



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<b>FORM PTO – 1449</b>  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>				ATTORNEY DOCKET NO.: PXE-001C1  APPLICANT(S): Boyd <i>et al.</i>  SERIAL NO.: 10/764,328  FILING DATE: January 23, 2004    GROUP: 1614					
<b>U.S. PATENT DOCUMENTS</b>									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
<b>FOREIGN PATENT DOCUMENTS</b>									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C6	Bacchelli <i>et al.</i> , (1999), "Identification of Heterozygote Carriers in Families with a Recessive Form of Pseudoxanthoma Elasticum (PXE)," <u>Modern Pathology</u> , 12(12):1112-1123.							
	C7	Bergen <i>et al.</i> , (2000), "Mutations in ABCC6 cause pseudoxanthoma elasticum," <u>Nature Genetics</u> , 25(2):228-231.							
	C8	Cai <i>et al.</i> , (2000), "A 500-kb region on chromosome 16p13.1 contains the pseudoxanthoma elasticum locus: high-resolution mapping and genomic structure," <u>Journal of Molecular Medicine</u> , 78(1):36-46.							
	C9	Germain <i>et al.</i> , (2000), "Homozygosity for the R1268Q Mutation in MRP6, the Pseudoxanthoma Elasticum Gene, Is Not Disease-Causing," <u>Biochemical and Biophysical Research Communications</u> , 274(2):297-301.							
	C10	Germain <i>et al.</i> , (2000), "Identification of Two Polymorphisms (c189G>C; c190T>C) in Exon 2 of the Human MRP6 Gene (ABCC6) by Screening of Pseudoxanthoma Elasticum Patients: Possible Sequence Correction?" <u>Human Mutation</u> , Mutation and Polymorphism Report #174, Online (3 pages).							
	C11	Hopper <i>et al.</i> , (2001), "Analysis of the structure and expression pattern of MRP7 (ABCC10), a new member of the MRP subfamily," <u>Cancer Letters</u> , 162(2):181-191.							
	C12	Kool <i>et al.</i> , (1999), "Expression of Human MRP6, a Homologue of the Multidrug Resistance Protein Gene MRP1, in Tissues and Cancer Cells," <u>Cancer Research</u> , 59:175-182.							
	C13	Le Saux <i>et al.</i> , (2000), "Mutations in a gene encoding an ABC Transporter cause pseudoxanthoma elasticum," <u>Nature Genetics</u> , 25: 223-227.							
	C14	Le Saux <i>et al.</i> , (2001), "A Spectrum of ABCC6 Mutations Is Responsible for Pseudoxanthoma Elasticum," <u>American Journal of Human Genetics</u> , 69: 749-764.							
	C15	Mao <i>et al.</i> , (1999), "ATPase activity of purified and reconstituted multidrug resistance protein MRP1 from drug-selected H69AR cells," <u>Biochimica et Biophysica Acta</u> , 1461:69-82.							
EXAMINER					DATE CONSIDERED				

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Boyd <i>et al.</i>	
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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C16	Perdu <i>et al.</i> , (2000), "Identification of Novel Polymorphisms in the pM5 and MRP1 (ABCC1) Genes at Locus 16p13.1 and Exclusion of Both Genes as Responsible for Pseudoxanthoma Elasticum," <u>Human Mutation</u> , Mutation in Brief #388, Online (5 pages).	
	C17	Quaglino <i>et al.</i> , (2000), "Abnormal phenotype of in vitro dermal fibroblasts from patients with pseudoxanthoma elasticum (PXE)," <u>Biochimica et Biophysica Acta</u> , 1501:51-62.	
	C18	Renie <i>et al.</i> , (1984), "Pseudoxanthoma Elasticum: High Calcium Intake in Early Life Correlates With Severity," <u>American Journal of Medical Genetics</u> , 19:235-244.	
	C19	Ringpfeil <i>et al.</i> , (2000), "Mutations in the MRP6 Gene Cause Pseudoxanthoma Elasticum," <u>The Journal of Investigative Dermatology</u> , 115(2):332, Abstract HB1.	
	C20	Sapadin <i>et al.</i> , (1998), "Periumbilical pseudoxanthoma elasticum associated with chronic renal failure and angiod streaks – apparent regression with hemodialysis," <u>Journal of the American Academy of Dermatology</u> , 39(2):338-344.	
	C21	Struk <i>et al.</i> , (2000), "Mutations of the gene encoding the transmembrane transporter protein ABC-C6 cause pseudoxanthoma elasticum," <u>Journal of Molecular Medicine</u> , 78(5):282-286.	
	C22	Tybulewicz <i>et al.</i> , (1991), "Neonatal Lethality and Lymphopenia in Mice with a Homozygous Disruption of the <i>c-abl</i> Proto-Oncogene," <u>Cell</u> , 65:1153-1163.	
EXAMINER		DATE CONSIDERED	